

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,008		07/25/2003	Angel Stoyanov	25297	3946	
28624	7590	09/30/2004		EXAMINER		
		SER COMPANY L PROPERTY DEPT.	CHIN, PETER			
P.O. BOX	9777		, 611 102,	ART UNIT	PAPER NUMBER	
FEDERA:	L WAY,	, WA 98063		1731		
				DATE MAIL ED: 09/30/200/		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	-
	10/628,008	STOYANOV ET AL.	
Office Action Summary	Examiner	Art Unit	
	Peter Chin	1731	
The MAILING DATE of this communication			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory porally received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thi period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication of the communication	ation.
Status			
1) Responsive to communication(s) filed on _	•		
	This action is non-final.		
3) Since this application is in condition for allo		ters prosecution as to the merits	e ie
closed in accordance with the practice und	der Ex parte Quayle, 1935 C.[D. 11, 453 O.G. 213.) IS
Disposition of Claims		,	
· <u>_</u>	A!	•	
 4)⊠ Claim(s) <u>1-20</u> is/are pending in the applica 4a) Of the above claim(s) is/are with 			
5) Claim(s) is/are allowed.	idrawn from consideration.		
6)⊠ Claim(s) <u>1-20</u> is/are rejected.	•		
7) Claim(s) iş/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers	•		
			-
9) The specification is objected to by the Exan	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to Replacement drawing sheet(s) including the co	rection is required if the descrip-	ice. See 37 CFR 1.85(a).	
11) The oath or declaration is objected to by the	e Examiner. Note the attached	(s) is objected to. See 37 CFR 1.12° 1 Office Action or form PTO-152	I (d).
Priority under 35 U.S.C. § 119		102.	
-			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	agn priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docum	ents have been received		
2. Certified copies of the priority docum		onlination N.	
3. Copies of the certified copies of the p	riority documents have been	received in this National Change	
application from the International Bur	reau (PCT Rule 17 2(a))	received in this Mational Stage	
* See the attached detailed Office action for a	list of the certified copies not	received	
			•
_			
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date	
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date		formal Patent Application (PTO-152)	

Application/Control Number: 10/628,008

Art Unit: 1731

DETAILED ACTION

1. Claims 1-3,6-7,9,10,13,15,16,19 and 20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jewell et al (6,207,278) and if necessary Jewell et al (6,551,706 a continuation of 6,207,278).

Jewell et al ('278) discloses the claimed invention. While the examples in Jewell et al ('278) use a mixture of glyoxal and a glycol, the disclosure states that the glycol is merely optional, being present in an amount of up to 2%, column 2, lines 31-37. This range includes zero amounts as the lower limit. Thus Jewell et al anticipates the claimed invention or at the least it would have been obvious to omit the glycol since it is merely optional. If additional evidence is necessary to show that the glycol is merely an optional component of the glycol crosslinking agent, see claims 1 and 6 of Jewell et al ('706), which patent is based on the continuation application that matured into the ('278) patent. Claim 1 claims only glyoxal and claim 6 claims the combination of glyoxal and glycol which clearly supports and shows that Jewell et al disclose the use of glyoxal as a single crosslinking agent.

2. Claims 4,5,8,11,12,14,17,18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jewell et al (6,207,278) and if necessary Jewell et al (6,551,706).

Jewell et al ('278) discloses time and temperature of curing for glyoxal and glycol crosslinking of the cellulose fibers. Time and temperature of curing are process effective parameters to achieve the requisite wet bulk that is preferably greater than about 25 cc/g at 0.6 kPa. Thus, it would have been obvious to employ the claimed curing temperature and time for crossslink cellulose fibers using glyoxal as the sole

Application/Control Number: 10/628,008

Art Unit: 1731

Page 3

crosslinking agent since it is merely optimization of process effective parameters to achieve the desired wet bulk. As to the claimed brightness in claims 8,14 and 20, this limitation is merely a reflection of the use of bleached pulp, which is one type of pulp taught by Jewell et al. Thus it would have been an obvious to employ a bleached pulp and the ISO value would depend on the type of product or article the crosslinked pulp will be used for.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Chin whose telephone number is (571) 272-1186. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PETER CHIN PRIMARY EXAMINER